

3.6 Suisun City

Daily minimum, maximum, and average values of temperature (T), relative humidity (RH), scalar wind speed (S), and standard deviation of the unit vector wind direction (σ_θ) are listed in Tables 23, 24, 25, and 26. In addition, unit vector wind direction (θ) and vector wind speed (U) for each day are also listed in these tables. The 5-min values of θ and U were used to construct wind roses for June, July, August, and September which are shown in Figures 41, 42, 43, and 44, respectively.

Average high temperatures of 30 °C for the Suisun City site are slightly lower than those found in the San Joaquin Valley. Relative humidity ranges from 30% during the day to 85% at night. The scalar wind speed averages nearly 7 m s⁻¹ early in the summer decreasing to about 4.5 m s⁻¹ by September. The wind flow is strongly dominated by a southwesterly flow originating from the San Francisco Bay region. Winds speeds often exceed 8 m s⁻¹. In June and September, relatively strong winds are also found, however, their occurrence is infrequent.

Table 23. Suisun City monthly weather and wind summary for June.

Day	T (°C)			RH (%)			S (m s ⁻¹)			Θ (deg)	U (m s ⁻¹)	ϕ_θ (deg)		
	min	max	avg	min	max	avg	min	max	avg			min	max	avg
1	12.8	32.1	22.4	13.0	73.3	39.5	1.1	7.4	4.1	236.7	3.8	5.6	74.5	14.4
2	12.2	27.5	18.4	24.0	87.5	58.2	2.7	9.3	6.7	238.6	6.6	6.6	14.0	9.2
3	10.9	28.9	18.5	25.1	92.5	64.4	3.3	9.6	6.1	240.9	5.9	5.9	20.6	9.7
4	10.5	27.0	16.7	26.5	91.6	64.9	4.6	12.4	7.9	241.4	7.8	5.7	14.2	8.9
5	10.7	24.9	17.3	45.8	82.5	64.1	5.8	11.8	9.0	242.5	8.8	5.9	13.6	8.8
6	12.6	27.5	19.3	32.6	86.5	59.3	3.6	9.6	6.8	238.4	6.7	6.7	25.3	9.7
7	13.2	22.9	17.2	50.9	97.3	72.9	4.1	11.7	8.1	244.7	7.9	4.9	27.9	9.1
8	11.5	21.9	16.1	54.7	98.1	78.4	3.1+	8.4+	5.8+	237.6+	5.7+	5.0	18.4	9.5
9	10.5	23.1	16.3	37.8	91.1	68.8	4.7	10.2	7.5	240.7	7.4	6.4	16.5	9.3
10	10.9	25.0	17.1	39.9	90.3	64.9	2.7	8.2	6.0	233.8	5.8	6.7	28.9	11.0
11	11.6	27.9	19.2	29.6	82.1	57.7	1.7	8.1	5.6	233.1	5.4	6.7	40.2	11.4
12	15.4	32.8	22.7	29.5	82.0	58.0	3.1	10.3	6.1	235.4	5.8	6.3	22.4	10.3
13	17.2	39.8	30.5	13.2	87.2	34.0	1.9	16.1	9.0	347.4	7.7	4.4	23.2	9.3
14	25.6	42.0	34.3	12.0	36.5	22.2	1.0	11.0	5.8	8.6	4.8	3.9	39.3	9.8
15	20.1	39.4	29.8	21.1	70.7	39.0	1.0	7.4	4.3	238.3	4.0	6.1	40.4	11.7
16	16.6	33.3	23.9	27.6	84.6	57.1	3.1	9.3	6.3	238.0	6.1	6.7	26.4	10.1
17	13.9	26.5	19.5	45.9	91.3	69.8	3.9	12.9	9.6	245.9	9.4	6.0	16.9	8.6
18	14.4	24.1	18.2	47.7	86.7	70.4	6.5	12.6	9.5	249.5	9.3	5.5	13.5	8.3
19	13.0	32.7	21.8	33.3	91.5	62.9	1.2	8.2	5.3	247.6	4.5	4.9	47.1	11.8
20	15.0	36.0	25.0	19.8	85.4	48.8	1.3	8.2	5.6	243.6	4.9	5.3	63.9	11.5
21	16.1	35.5	24.7	23.1	76.8	48.0	4.0	10.0	6.2	235.6	6.0	6.5	20.4	9.7
22	13.5	28.0	19.7	40.2	86.3	63.3	4.9	11.4	8.3	242.0	8.1	5.4	13.1	8.6
23	12.2	27.1	18.3	33.4	87.4	65.1	5.0	9.3	7.0	246.9	6.9	6.4	13.0	8.9
24	12.3	28.5	19.4	38.4	90.2	66.9	5.8	10.1	7.8	243.1	7.7	5.7	14.8	8.8
25	13.5	33.0	21.7	30.1	92.2	62.2	2.1	10.9	7.0	235.4	6.9	6.2	32.0	9.9
26	14.1	34.9	23.2	20.2	91.5	56.7	4.0	9.1	6.9	232.3	6.7	6.5	16.9	9.4
27	15.1	34.4	23.7	21.6	87.1	54.7	3.3	9.6	6.6	233.5	6.4	7.1	18.7	9.8
28	15.1	32.2	22.6	29.4	87.4	59.3	4.4	9.7	7.3	235.2	7.1	6.4	13.6	8.9
29	14.0	27.4	18.9	41.8	92.1	71.4	6.7	13.5	9.5	240.5	9.4	6.6	11.5	8.5
30	12.6	25.8	17.8	39.4	92.8	67.9	5.3	12.6	9.3	238.8	9.2	6.9	12.6	8.7
min	10.5	21.9	16.1	12.0	36.5	22.2	1.0	7.4	4.1		3.8	3.9	11.5	8.3
max	25.6	42.0	34.3	54.7	98.1	78.4	6.7	16.1	9.6		9.4	7.1	74.5	14.4
avg	13.9	30.1	21.1	31.6	85.8	59.0	3.5	10.3	7.0	243.5	6.2	6.0	25.1	9.8

Explanation of Symbols:

- All data unavailable for day
- * More than two hours of data unavailable
- + Two hours or less of data unavailable
- (no symbol) All data available for day

Table 24. Suisun City monthly weather and wind summary for July.

Day	T (°C)			RH (%)			S (m s ⁻¹)			θ (deg)	U (m s ⁻¹)	φ _θ (deg)		
	min	max	avg	min	max	avg	min	max	avg			min	max	avg
1	12.7	26.5	18.6	33.6	89.8	62.8	5.8	10.9	8.2	239.6	8.1	6.4	18.6	9.2
2	12.2	22.5	16.4	45.3	87.6	68.9	2.1	10.9	7.5	237.8	7.4	6.3	14.0	9.3
3	11.7	25.1	17.2	41.4	89.6	66.6	3.8	9.0	6.3	233.7	6.2	6.7	18.0	10.2
4	11.6	28.7	18.7	33.2	90.6	63.4	1.6	9.2	5.9	240.7	5.7	6.0	41.5	10.8
5	12.8	23.9	17.6	47.0	89.7	68.8	6.1	10.6	8.4	236.8	8.2	6.6	17.3	9.2
6	12.4	25.0	17.4	41.9	88.5	67.0	4.9	11.3	7.3	237.9	7.1	5.9	18.2	9.2
7	12.8	23.9	17.5	43.8	86.9	67.9	5.0	10.9	8.2	242.1	8.0	6.4	14.0	9.0
8	13.2	28.3	19.1	26.8	90.7	66.2	1.4	8.1	5.5	246.7	5.3	5.8	43.8	11.0
9	12.4	32.3	21.2	20.1	90.8	59.8	1.3	7.3	4.6	237.6	4.4	6.5	67.5	12.5
10	12.6	28.4	19.3	37.3	93.4	67.5	4.7	8.7	6.8	241.0	6.7	6.5	16.3	9.1
11	12.6	30.3	19.8	30.0	92.8	66.0	4.5	9.4	6.7	241.2	6.5	6.5	19.0	9.3
12	13.3	26.0	18.5	44.8	89.1	69.1	6.3	11.6	9.4	245.9	9.3	6.2	11.4	8.5
13	13.8	27.8	19.3	29.0	86.1	62.8	4.9	11.0	8.0	247.3	7.9	5.1	13.7	8.7
14	11.9	33.0	21.1	17.0	92.8	57.5	1.7	8.1	5.3	239.9	5.2	5.2	34.5	11.3
15	13.3	29.6	19.6	29.2	87.3	63.5	1.9	11.3	6.8	242.5	6.7	4.8	16.3	8.9
16	13.6	21.7	16.7	55.3	86.0	74.3	7.3	12.3	9.9	238.6	9.8	6.5	13.3	8.6
17	14.5	22.7	17.8	51.8	84.3	70.3	6.0	10.1	8.2	240.1	8.0	6.2	16.4	9.1
18	12.1	32.1	21.2	25.6	95.6	61.1	1.5	8.7	5.1	242.1	4.9	5.8	50.3	11.9
19	14.2	33.8	22.4	22.7	81.9	54.1	3.7	8.8	6.0	237.6	5.8	6.3	21.4	9.8
20	13.2	33.3	21.4	27.5	86.9	59.4	3.6	9.5	6.8	238.4	6.7	6.4	17.6	9.2
21	12.4	28.8	19.4	37.8	91.7	66.7	6.1	11.5	8.7	238.7	8.6	6.9	13.4	8.9
22	13.9	31.1	21.3	30.9	92.3	62.4	3.3	10.8	7.0	235.9	6.9	6.4	20.5	9.7
23	14.4	36.8	24.5	10.0	82.3	48.4	1.3	7.2	4.2	243.4	3.5	5.6	69.3	13.7
24	14.6	37.0	24.8	14.1	82.3	49.3	1.8	8.6	4.6	239.4	4.3	6.3	52.9	11.7
25	14.5	33.1	22.5	26.6	82.1	53.5	4.9	11.7	7.4	236.3	7.2	6.0	15.1	8.9
26	14.9	28.1	20.8	28.8	80.0	55.0	7.4	12.1	9.6	236.6	9.4	6.2	13.0	8.6
27	13.3	31.4	21.0	28.9	88.9	60.0	1.8	10.7	5.5	240.5	5.2	5.2	46.0	11.9
28	13.8	34.7	23.5	21.1	88.9	55.6	1.1	6.9	4.7	242.3	4.5	5.2	71.7	11.7
29	15.0	36.3	24.8	23.2	88.7	55.1	1.2	7.6	4.8	240.7	4.6	6.0	65.9	11.9
30	15.3	36.7	25.2	20.6	86.6	52.3	1.8	6.8	4.6	239.2	4.4	5.8	32.5	11.2
31	17.6	39.5	27.9	18.2	82.9	48.0	0.9	6.1	4.2	233.6	4.0	6.2	61.1	12.8
min	11.6	21.7	16.4	10.0	80.0	48.0	0.9	6.1	4.2		3.5	4.8	11.4	8.5
max	17.6	39.5	27.9	55.3	95.6	74.3	7.4	12.3	9.9		9.8	6.9	71.7	13.7
avg	13.4	30.0	20.5	31.1	88.0	61.4	3.5	9.6	6.7	239.8	6.5	6.1	30.5	10.2

Explanation of Symbols:

- All data unavailable for day
- * More than two hours of data unavailable
- + Two hours or less of data unavailable
- (no symbol) All data available for day

Table 25. Suisun City monthly weather and wind summary for August.

Day	T (°C)			RH (%)			S (m s ⁻¹)			θ (deg)	U (m s ⁻¹)	φ _θ (deg)		
	min	max	avg	min	max	avg	min	max	avg			min	max	avg
1	20.5	38.7	28.9	21.9	66.7	42.8	0.9	8.1	4.6	232.2	4.3	6.3	53.2	12.2
2	20.2	36.6	27.5	18.6	62.3	39.6	2.7	9.8	6.5	245.3	6.3	5.8	14.9	8.6
3	16.1	30.1	21.6	32.9	82.1	60.0	5.6	11.5	8.3	252.1	8.1	4.5	12.9	8.1
4	14.4	31.6	21.5	27.2	87.7	62.2	3.3	9.6	6.7	245.4	6.6	5.7	18.3	9.3
5	14.5	33.8	23.2	23.0	85.5	54.7	3.6	9.6	6.5	236.2	6.4	6.1	15.7	9.3
6	14.4	31.5	21.7	31.0	82.0	55.4	4.4	11.0	7.6	237.6	7.5	6.5	15.3	9.0
7	13.6	24.0	18.1	50.8	87.6	71.9	7.2	12.5	9.8	237.9	9.7	6.3	12.3	8.6
8	13.7	27.9	18.8	36.1	90.3	70.4	5.2	11.8	7.3	245.8	7.1	5.7	15.5	9.1
9	13.0	28.3	19.1	31.6	90.1	65.5	5.4	10.8	7.8	245.0	7.6	5.9	15.1	9.0
10	13.8	26.7	18.8	38.2	82.3	64.3	5.4	11.1	7.9	244.0	7.7	6.7	16.6	9.0
11	13.7	35.4	23.9	15.9	94.3	52.9	1.1	7.1	3.8	241.2	3.3	5.9	61.1	14.3
12	16.4	36.2	24.9	14.5	73.7	42.2	1.0	8.9	4.3	239.5	4.1	5.9	75.9	12.7
13	14.3	34.7	23.2	15.7	79.4	47.9	1.9	9.2	5.7	236.0	5.5	5.5	32.4	10.6
14	15.1	35.5	24.5	14.2	71.7	43.6	1.4	8.5	5.1	236.8	4.8	6.4	48.4	11.5
15	13.8	35.2	24.2	18.1	77.4	44.9	1.9	8.2	4.6	242.2	4.1	6.3	39.9	12.1
16	14.2	37.5	25.9	12.8	82.5	42.1	1.0	7.0	4.1	242.4	3.3	5.3	58.5	12.5
17	15.7	34.1	23.7	17.5	72.1	43.9	3.6	10.4	6.7	232.4	6.5	6.1	19.4	9.6
18	14.2	31.1	21.4	23.1	75.0	48.8	4.9	11.9	7.6	234.2	7.5	6.1	16.5	9.1
19	13.3	28.1	19.6	28.5	90.6	61.7	4.4	10.8	7.4	235.2	7.3	6.1	13.2	9.0
20	12.3	30.9	20.7	25.1	89.7	57.8	1.1	8.3	4.5	244.2	4.1	6.0	73.5	13.3
21	13.8	33.8	22.3	19.4	87.3	53.8	1.1	7.4	4.2	241.0	3.9	5.2	62.3	13.1
22	13.6	29.4	19.8	33.2	90.9	66.0	4.2	8.9	6.4	243.9	6.2	6.1	14.5	8.9
23	12.8	25.7	18.0	40.1	91.1	70.6	2.8	10.7	8.0	247.0	7.9	6.2	14.6	8.5
24	12.5	34.4	21.8	14.1	94.9	58.4	1.1	7.9	4.3	247.6	3.6	5.5	67.6	13.2
25	13.8	35.6	24.1	11.4	82.8	47.6	1.0	7.3	4.1	242.1	3.7	4.2	65.8	12.8
26	13.3	32.5	21.2	13.1	90.7	59.5	3.0	8.8	6.1	244.2	6.0	5.0	18.1	9.0
27	12.5	32.8	21.2	13.5	93.6	59.3	2.8	9.4	5.2	243.0	5.1	5.7	20.6	9.6
28	13.6	29.9	19.8	30.9	88.3	63.5	4.6	11.3	7.6	240.6	7.5	5.6	13.4	8.7
29	13.4	18.4	15.7	63.6	87.2	75.9	4.6	11.6	8.4	241.9	8.1	5.8	15.7	8.5
30	14.7	19.4	16.5	70.3	83.6	78.1	4.9	9.7	7.2	247.9	7.1	5.6	11.2	8.2
31	14.8	24.6	18.4	47.6	90.1	72.6	5.4	9.4	7.4	239.3	7.3	6.5	14.7	8.9
min	12.3	18.4	15.7	11.4	62.3	39.6	0.9	7.0	3.8		3.3	4.2	11.2	8.1
max	20.5	38.7	28.9	70.3	94.9	78.1	7.2	12.5	9.8		9.7	6.7	75.9	14.3
avg	14.4	31.1	21.6	27.5	84.0	57.3	3.3	9.6	6.3	241.5	6.0	5.8	30.5	10.2

Explanation of Symbols:

- All data unavailable for day
- * More than two hours of data unavailable
- + Two hours or less of data unavailable
- (no symbol) All data available for day

Table 26. Suisun City monthly weather and wind summary for September.

Day	T (°C)			RH (%)			S (m s ⁻¹)			Θ (deg)	U (m s ⁻¹)	ϕ_θ (deg)		
	min	max	avg	min	max	avg	min	max	avg			min	max	avg
1	14.4	17.8	16.0	72.8	95.7	85.6	1.7*	6.5*	4.2*	228.7*	4.1*	5.6	17.1	10.3
2	14.0	24.7	17.8	31.1	92.7	68.1	0.3+	6.0+	2.9+	231.4+	2.5+	5.2	34.1	13.0
3	11.6	24.8	17.5	28.1	86.4	59.4	2.6	8.0	5.5	238.1	5.3	5.3	20.6	9.7
4	10.6	25.4	17.2	31.9	83.0	60.5	0.6	8.0	4.2	234.9	4.0	4.7	76.3	13.2
5	10.5	28.3	19.5	16.9	87.1	49.1	1.3	8.1	4.3	327.1	2.3	2.0	24.9	10.1
6	16.1	31.1	23.5	14.7	65.0	29.9	0.2	11.3	5.5	351.3	3.7	2.6	40.2	9.8
7	13.6	34.4	24.1	12.7	67.4	34.6	0.7	5.5	2.9	252.1	0.8	3.2	67.5	13.6
8	14.4	32.2	22.3	18.2	79.3	48.7	1.2	8.5	5.0	237.4	4.8	5.8	18.5	9.9
9	12.4	31.0	20.3	17.1	89.0	56.0	0.9	7.4	4.4	243.6	4.2	5.2	59.3	12.4
10	11.8	30.5	19.9	21.7	91.7	59.3	3.3	7.0	4.8	244.1	4.7	3.8	20.4	9.4
11	12.2	35.0	22.5	12.0	91.8	48.9	1.1	6.7	3.6	244.5	2.6	4.5	63.3	12.3
12	14.4	33.1	24.2	21.2	79.9	44.4	0.9	5.6	2.9	259.3	0.4	2.7	48.2	11.6
13	20.6	36.1	26.3	14.3	57.1	36.9	0.3	6.7	2.9	251.0	1.9	3.5	63.7	13.6
14	17.0	28.3	22.3	44.1	82.2	62.3	1.8	9.8	6.6	244.3	6.4	5.0	35.7	9.6
15	14.3	28.1	19.9	39.3	89.7	68.4	4.3	9.2	6.9	239.4	6.8	6.1	13.3	8.7
16	14.4	31.0	21.9	25.7	94.2	62.6	1.3	8.3	4.2	257.6	2.5	3.1	66.1	12.4
17	16.7	35.8	25.7	15.9	83.6	45.3	0.7	8.4	3.7	350.9	1.2	3.5	27.2	10.6
18	17.3	38.7	27.6	12.6	65.4	37.4	0.3+	5.5+	3.0+	309.9+	0.4+	1.5	68.7	12.9
19	19.6	39.5	28.7	16.2	64.1	36.7	1.2	6.9	4.2	236.8	3.2	5.5	46.4	12.0
20	16.8	37.6	25.8	19.1	86.2	47.3	0.2	13.0	5.3	246.4	4.0	4.1	75.3	12.8
21	16.6	23.3	18.9	52.5	85.9	71.7	4.6	15.0	9.4	250.8	9.2	5.6	12.4	8.1
22	14.9	22.0	17.4	57.3	97.8	79.3	2.0	5.9	3.7	242.8	3.6	4.1	20.7	9.6
23	12.7	27.9	19.5	18.7	94.8	58.1	0.9	6.5	3.6	265.7	1.6	5.5	66.0	12.2
24	12.6	29.7	20.5	17.3	95.4	53.5	0.6	5.5	3.0	244.7	1.7	2.2	70.7	14.3
25	13.1	32.4	22.3	19.3	89.0	50.0	0.7	6.8	3.3	277.8	0.8	3.0	56.5	13.4
26	14.1	32.0	21.6	23.2	88.9	58.9	1.2	7.0	4.4	238.6	4.0	2.7	57.1	12.0
27	14.1	24.2	17.8	47.6	89.9	72.8	4.9	11.6	8.1	243.2	7.9	6.0	16.8	8.3
28	13.3	20.8	16.5	53.4	87.7	72.9	4.8	9.6	6.7	239.5	6.5	5.7	15.0	8.6
29	11.8	31.6	20.7	28.1	98.0	63.9	2.0	6.5	4.0	235.9	3.8	3.0	37.8	10.2
30	12.7	34.4	23.6	22.9	89.2	51.8	0.2+	4.7+	2.6+	235.6+	0.6+	2.6	52.3	14.2
min	10.5	17.8	16.0	12.0	57.1	29.9	0.2	4.7	2.6		0.4	1.5	12.4	8.1
max	20.6	39.5	28.7	72.8	98.0	85.6	4.9	15.0	9.4		9.2	6.1	76.3	14.3
avg	14.3	30.1	21.4	27.5	84.9	55.8	1.6	7.8	4.5	246.8	3.2	4.1	43.1	11.3

Explanation of Symbols:

- All data unavailable for day
- * More than two hours of data unavailable
- + Two hours or less of data unavailable
- (no symbol) All data available for day

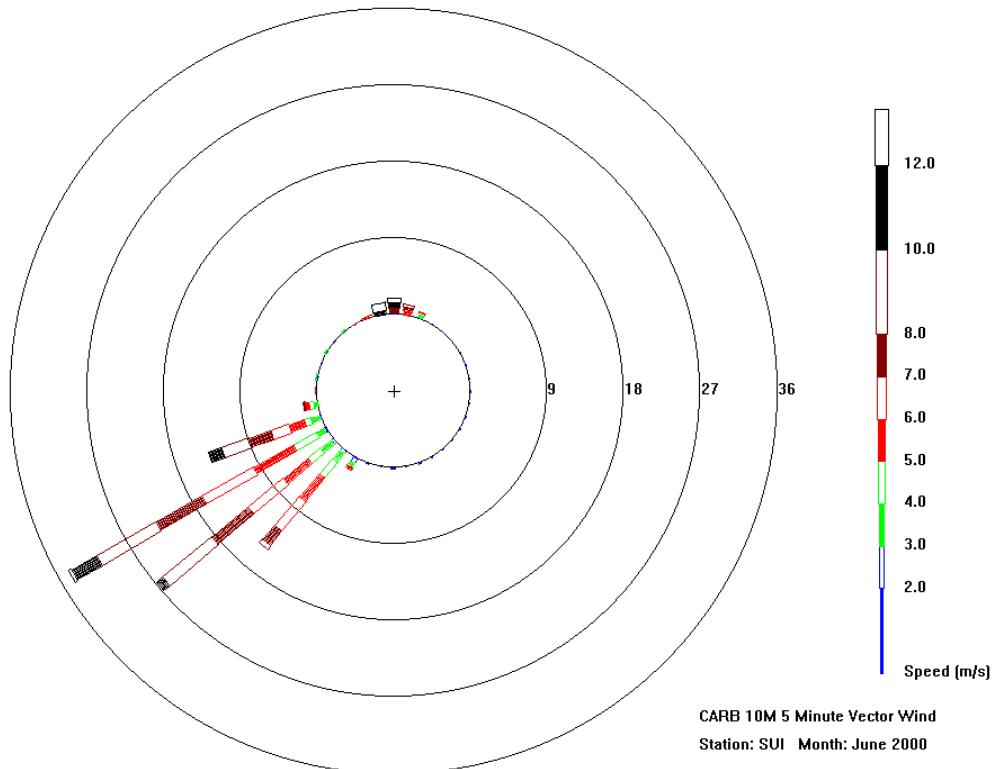


Figure 41. Suisun City wind rose for June.

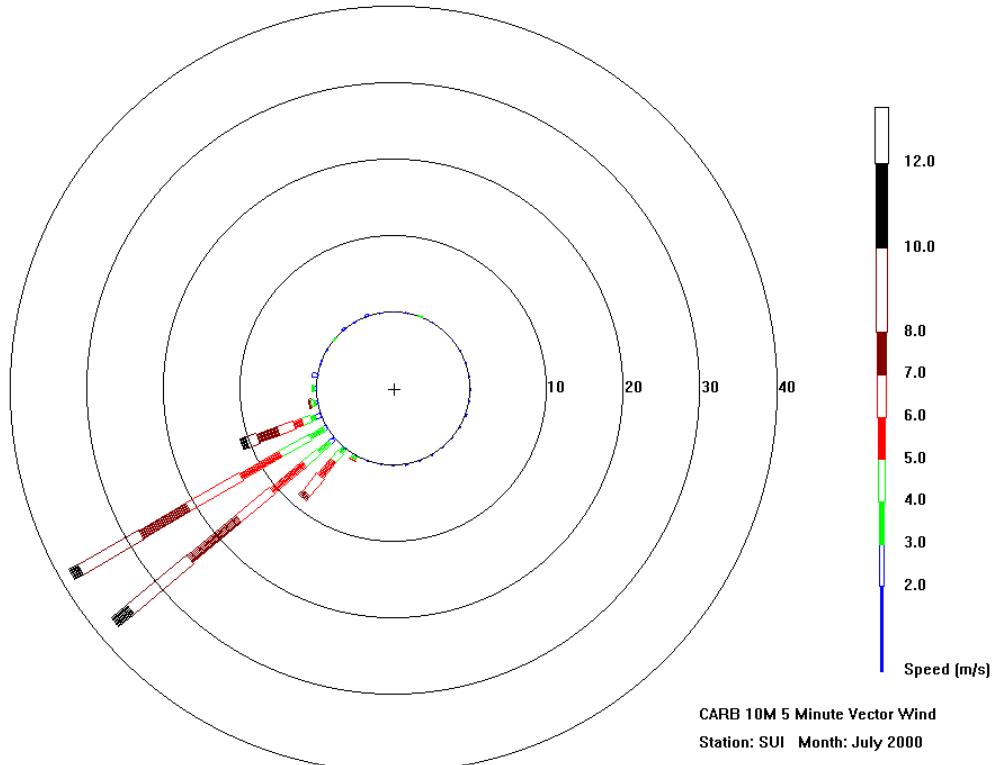


Figure 42. Suisun City wind rose for July.

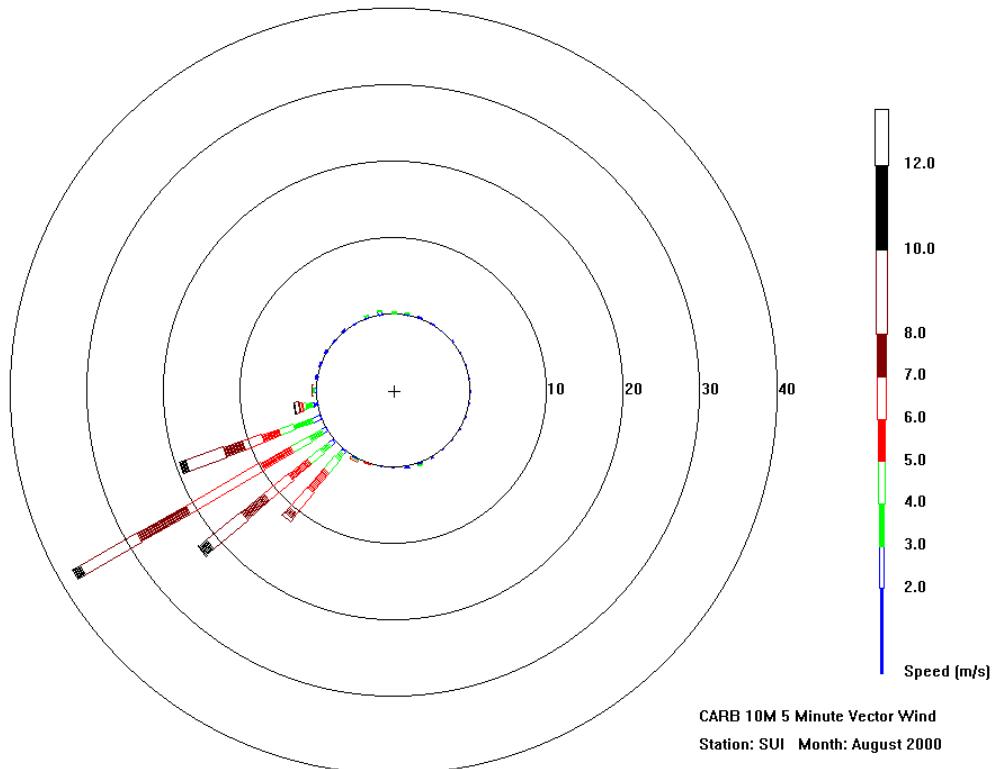


Figure 43. Suisun City wind rose for August.

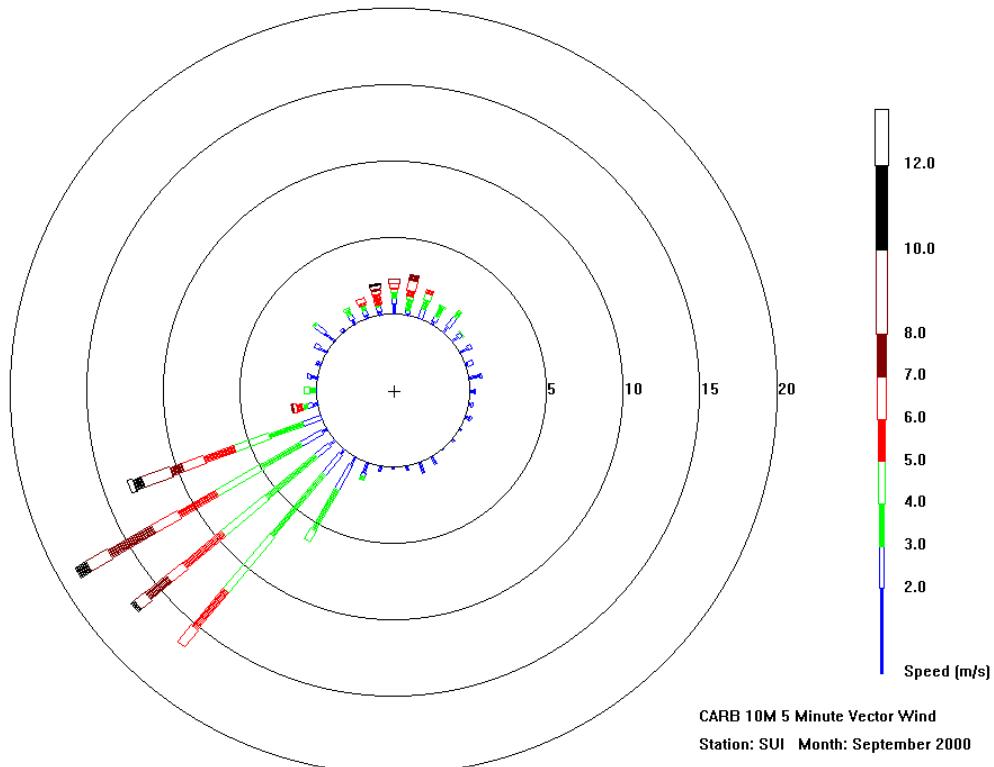


Figure 44. Suisun City wind rose for September.